JLOTS Symposium
4-6 Feb 03

POC: Dave Crum - Watercraft Branch Chief
DCD-Transportation, USACASCOM
DSN 687-1170
crumd@lee.army.mil

Agenda

- Army Conceptual Framework for Future JLOTS
- Theater Support Vessel (TSV) Update
- Army Support of JLOTS – Fleet End State
- Summary

Army Conceptual Framework for Future JLOTS

- **Issues:**
  - Army Objective Force (OF) - capabilities require assured access of forces at multiple points of entry in austere environments – Objective Force O&O
  - Speed is the Template - Bde in 96 / Div in 120 / 5 Divs in 30 days across a range of geographic conflict scenarios - Objective Force O&O
  - Current Technologies - Army LOTS are slow, transportation & labor intensive, sea state dependent: LSV / LCU-2000 / Modular Causeway System
  - Current Mindset - Fixed on over the beach LOTS, but LOTS is much more than bare beach operations…
- **How to Move Forward…**
  - TSV moving soldiers, leaders, equipment together from intermodel transfer points (ITP) or ISBs into existing battlespace port infrastructure
  - Detailed Chart Level Port Analysis to ID infrastructure accessibility and shortfalls in OPLAN AORs
  - Develop Rapid Port Enhancement capabilities
  - Develop LMSR/TSV interface technologies in the event of ISB/ITP denial (political, geographic, enemy action)

Chart Level Port Analysis

- Detailed Chart Level Port Analysis to ID infrastructure accessibility and shortfalls in OPLAN AORs
  - NIMA World Port Index Review (DCD-TC, CASCOM)
  - Center for Navy Analysis Study (CIM D0005440 & 5441.1A)
  - Quick Look at Indonesia, South/Central America, and Persian Gulf (CASCOM/WES) – Complete
  - All good studies but need expanded scope to develop comprehensive database for determining port accessibility and shortfalls – Phases 2 & 3 working; 4-6 pending
- Intent:
  - Develop world class data base for operational planning
  - Identify alternative strategies to bare beach LOTS using existing infrastructure
  - Identify requirements for Rapid Port Enhancement capabilities

Rapid Port Enhancement

- Develop Rapid Port Enhancement capabilities
  - Leverage expanded scope port study to identify and develop required DTLOM-PF requirements
  - Preliminary Look:
    - Waterside infrastructure enhancements – expanding existing infrastructure to conduct rapid throughput of TSV or other lighters
    - Portside infrastructure enhancements - soil stabilization, vertical + horizontal construction, ramps
    - Rapid dredging capability
    - Inshore breakwaters

- Current:
  - MANSCEN/DPMO/WES: Developing ICT to articulate problems and issues
  - CASCOM: Develop Mission Area Analysis and Mission Needs Analysis to support concept exploration beginning 4th Qtr FY03

TSV/LMSR Interface

Develop TSV/LMSR interface technologies in the event of ISB/ITP denial (political, geographic, enemy action)

- Preliminary Concept:
  - Interim: Reduced RRDF MCS sections stowed aboard LMSR to provide a self-sustaining capability for in-stream and off-shore discharge – use the least number of sections to support ramp to ramp interface
  - Objective: Direct interface between TSV and LMSR via stern ramp
- Next Steps:
  - Naval architect review on feasibility of both approaches, modification cost ROM, additional concepts

Theater Support Vessel Update

Theater Support Vessel Program Objectives

Get to Fight Quicker and Close the Force Faster

- **Maximize Proven Commercial Technologies with Military Modifications**
- **Move Soldiers, Equipment, and Leaders Together**

TSV is the <u>only Army unique intra-theater lift platform</u> that *meets*
Army Transformation Vision Goals

TSV Program Status

- HSV-X1 joint demonstration vessel – FY01-03
  - OEF Support
  - MC ’02 and Victory Strike III
  - **Result: NDI with military mods provide military utility**
- ORD updated and forwarded to DA.
  - AROC scheduled for 3 Apr 03
  - MS C decision in 2nd Qtr FY04
- Sec Army approved as a service unique capability – Dec 02
- VCSA briefed – Dec 02
- TSV – 1X ACTD USAV Spearhead accepted by the Army – Nov 02
  - TSV-1X supporting OEF operations
- CENTCOM sponsored ACTD FY03-05
  - Integrate and evaluate: Self defense systems; C4ISR and En Route Mission Planning and Rehearsal System; Self Contained Cargo Handling System and others…
- US Produced RDT&E vessel – FY05
  - Technical risk reduction
- First production vessel – FY07

Where We Go From Here …

Evaluate and integrate advanced commercial and Government technologies to provide capabilities for Objective Forces

Today – Experimentation

- **Determine Military Utility of Commercial Technology**
  - ✓ **Continue Joint Experimentation**
  - ✓ **FY03-05 Advanced Concept Technology Demonstration**
- **Refine Modifications for Military Utility**
- **Refine Crewing and Training Requirements**

Tomorrow – Objective Capabilitie

- **US produced RDT&E vessel – FY05**
- **First production vessel – FY07**
- **IOC – 12 vessels by FY10**

Army Support of JLOTS - The End State Fleet

- 12 TSV Detachments
- 8 LSV Detachments
- 2 Heavy Boat Cos (20 LCU-2000)
- 2 Floating Craft Cos (6 LT, 12 ST, 4 BD Crane, Fuel Barges)
- 1 Medium Boat Co (16 LCM-8 Mods 1 and 2)
- 1 MCS Co (2 RRDF, 1 FC, 3 CF)
- 2 Floating Craft Maintenance Cos

- PREPO Packages in CENTCOM and PACOM
  - 1 LSV
  - 1 Heavy Boat Co (10 LCU-2000)
  - 1 Floating Craft Co (LT, ST, BD)
  - MCS (RRDF, FC, CF)
  - Medium Boat Plt (LCM-8 Mod 1 and 2)

Endstate Capabilities

- **High Speed Intra-Theater Li**
- **In-Stream/Off-Shore Discha**
- **Over the Beach LOTS**
- **Riverine and Inland Waterw**
- **Recovery and Salvage**

Summary

- TSV moving soldiers, leaders and equipment together from intermodel transfer points (ITP) or ISBs into existing battlespace port infrastructure – ***TSV program on track***

- Detailed Chart Level Port Analysis to ID infrastructure accessibility and shortfalls in OPLAN AORs – ***Quick Look complete; Phases 2 & 3 funded.***

- Develop Rapid Port Enhancement capabilities – ***start analysis work beginning 4th Qtr FY03***

- Develop LMSR/TSV interface technologies in the event of ISB/ITP denial (political, geographic, enemy action) – ***Funding shortfall***

- Working to Endstate Fleet Capabilities – ***POM, TAA***